PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference FOR FURTHEF | | | ACTION See Form PCT/IPEA/416 | | | | | |
|--|---|--|------------------------------|--|--|--|--|--|
| | national application No. | International filing date 23.11.2004 | (day/month/year) | Priority date (day/month/year) 23.12.2003 | | | | |
| Inter | | (IPC) or national classification and I | PC | | | | | |
| | icant LEVER N.V. et al. | | | | | | | |
| 1. | . This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. | | | | | | | |
| 2. | | | | | | | | |
| 3. | This report is also accompanied by ANNEXES, comprising: | | | | | | | |
| | a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows: | | | | | | | |
| | sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). | | | | | | | |
| | sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | | | | |
| | b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). | | | | | | | |
| | Box Helating to Sequence Listing (see Section 802 of the Administrative instructions). | | | | | | | |
| 4. | 4. This report contains indications relating to the following items: | | | | | | | |
| | ☐ Box No. I Basis | of the opinion | | | | | | |
| | ☐ Box No. II Priority | | | | | | | |
| | ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | | | | |
| 1 | ☐ Box No. IV Lack of unity of invention | | | | | | | |
| | Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | | |
| | ☐ Box No. VI Certain documents cited | | | | | | | |
| | Box No. VII Certain defects in the international application | | | | | | | |
| | ☐ Box No. VIII Certain observations on the international application | | | | | | | |
| Dat | e of submission of the demar | d | Date of completion of t | his report | | | | |
| 25. | 04.2005 | | 14.11.2005 | | | | | |
| Name and mailing address of the international | | | Authorized Officer | ches Patentem. | | | | |
| preliminary examining authority: European Patent Office D-80298 Munich | | | Vernier, F | S. There's Compare the Compare | | | | |
| | Tel. +49 89 2399 Fax: +49 89 2399 | - 0 Tx: 523656 epmu d - 4465 | Telephone No. +49 89 | 2399- | | | | |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/013654

| _ | | | | | | | | | | | | |
|---|-----------------|---------------------------------|--|---|--|-------------------------------------|------------------------------------|--------------------|-------------------------|-----------|---------------------------|--------------------------|
| | Box No | <u>o. I</u> | Basis of | he report | | | | | | | | |
| With regard to the language , this filed, unless otherwise indicated in the second control of the second | | | | s report is ba under this ite | sed on t em. | he interna | ational ap | plication i | n the lan | guage in | which it wa | |
| | wh | ich inte pul | is the languernational so Dication of t | age of a ti earch (und he interna | slations from ranslation fur er Rules 12.3 tional applica examination | nished fo 3 and 23 ation (und | or the pur .1(b)) der Rule 1 | poses of: I2.4) | | ng langu | age , | |
| With regard to the elements* of the international application, this report is based on (replacementary have been furnished to the receiving Office in response to an invitation under Article 14 are report as "originally filed" and are not annexed to this report): | | | | | | cement s e referred | heets whicl I to in this | | | | | |
| | Descrip | tion | ı, Pages | | | | | | | | | |
| | 1-10 | | | | as originally f | iled | | | | | | |
| | Claims, | Nu | mbers | | | | | | | | | |
| | 1-8 | | | | as originally f | iled | | | | | | |
| | □ as | equ | ience listing | and/or an | y related tab | le(s) - se | e Supplei | mental B | ox Relatin | g to Seq | uence Lis | sting |
| 3. | | the the the the | description claims, No drawings, s sequence | , pages s. sheets/figs isting <i>(spe</i> | Ited in the cand i | | | | | | | , |
| 4. | had not Supplet | the the the the the | en made, si tal Box (Ru description claims, No drawings, s sequence l | nce they h le 70.2(c)) , pages s. :heets/figs isting <i>(spe</i> | | nsidered | to go bey | iments ar | nnexed to disclosure | this repo | ort and lisi as indica | ted below ated in the |
| | * If | it | em 4 appi | lies, so | me or all | of the | ese shee | ets may | be mari | ked "su | persede | ∍d." |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/013654

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No:

1-8

Inventive step (IS)

Yes: Claims

Claims

No: Claims

1-8

Industrial applicability (IA)

Yes: Claims

1-8

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

PCT/EP2004/013654

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: OU SHIYI ET AL: "Ferulic acid: pharmaceutical functions, preparation and applications in foods" JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol. 84, no. 11, 30 August 2004 (2004-08-30), pages 1261-1269, XP001205991 ISSN: 0022-5142
- D2: THAKUR B R ET AL: "CHEMISTRY AND USES OF PECTIN A REVIEW" CRITICAL REVIEWS IN FOOD SCIENCE AND NUTRITION, BOCA RATON, FL, US, vol. 37, 1997, pages 47-73, XP009024042 ISSN: 1040-8398
- D3: WO 96/03546 A (NOVO NORDISK A/S; PEDERSEN, LARS, SAABY; FELBY, CLAUS) 8 February 1996 (1996-02-08)
- D4: US-A-4 672 034 (ROMBOUTS ET AL) 9 June 1987 (1987-06-09)
- 1. Document D1 (P-doc) may become relevant in the regional phase when dealing with the question of novelty of the present subject-matter.
- 2. None of D2-D4 discloses the process for preparing an edible barrier applied to a food product, said barrier being obtained by partial oxidation of a ferulyolated compound. Thus, present independant claims meet the novelty requirements (Article 33(2) PCT).
- 3. However, the solution to the problem of food preservation offered by present claims does not involve an inventive step (Article 33(3) PCT) in the light of the combinations of D2 (edible films of pectin) with D3 or D4 (oxidation process).
- 4. The subject-matter of present claims meets the requirements of Article 33(4) PCT.